

# PATENT COOPERATION TREATY

From the  
INTERNATIONAL SEARCHING AUTHORITY

# PCT



To:

see form PCT/ISA/220

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)

Date of mailing

(day/month/year) see form PCT/ISA/210 (second sheet)

Applicant's or agent's file reference  
see form PCT/ISA/220

### FOR FURTHER ACTION

See paragraph 2 below

International application No. ✓  
PCT/JP2005/015500

International filing date (day/month/year)  
19.08.2005 ✓

Priority date (day/month/year)  
24.08.2004 ✓

International Patent Classification (IPC) or both national classification and IPC  
H04B3/54

Applicant  
MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.

### 1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

### 2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

### 3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA:



European Patent Office - P.B. 5818 Patentlaan 2  
NL-2280 HV Rijswijk - Pays Bas  
Tel. +31 70 340 - 2040 Tx: 31 651 epo nl  
Fax: +31 70 340 - 3016

Authorized Officer

De Iulis, M

Telephone No. +31 70 340-4410



**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

**IAP5 Rec'd PCT/PTO 28 MAR 2006**

International application No.  
PCT/JP2005/015500

**10/ 573773**

**Box No. I Basis of the opinion**

1. With regard to the **language**, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
  - ☐ This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
  - a. type of material:
    - ☐ a sequence listing
    - ☐ table(s) related to the sequence listing
  - b. format of material:
    - ☐ in written format
    - ☐ in computer readable form
  - c. time of filing/furnishing:
    - ☐ contained in the international application as filed.
    - ☐ filed together with the international application in computer readable form.
    - ☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

International application No.  
PCT/JP2005/015500

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**Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

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**1. Statement**

|                               |             |         |
|-------------------------------|-------------|---------|
| Novelty (N)                   | Yes: Claims | 2-9     |
|                               | No: Claims  | 1,10-12 |
| Inventive step (IS)           | Yes: Claims |         |
|                               | No: Claims  | 1-12    |
| Industrial applicability (IA) | Yes: Claims | 1-12    |
|                               | No: Claims  |         |

**2. Citations and explanations**

**see separate sheet**

**Re Item V.**

- 1 Reference is made to the following document:  
D1 : US 2004/070912 A1 (KOPP LOWELL ELLIS) 15 April 2004 (2004-04-15)  
D2: US 2004/160990 A1 (LOGVINOV OLEG ET AL) 19 August 2004 (2004-08-19)

**2 INDEPENDENT CLAIM 1,10-12**

- 2.1 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1,10-12 is not new in the sense of Article 33(2) PCT. Document D1 discloses (the references in parentheses applying to this document):

A communication apparatus (D1 paragraph 5) for communicating with another communication apparatus via a transmission line in which characteristics of the transmission line periodically change, the communication apparatus comprising:

a transmission line estimation portion (D1 paragraph 37) for dividing a period by which the characteristics of the transmission line are changed into n number of sections (n is an integer equal to or greater than 2) and estimating the characteristics of the transmission line regarding each of the n number of sections; and

a communication parameter determination portion (D1 paragraph 39) for acquiring n number of communication parameters optimum for the respective n number of sections in accordance with an estimation result obtained by the transmission line estimation portion, and determining one communication parameter which is optimum for all the n number of sections based on the n number of communication parameters.

The same reasoning applies, mutatis mutandis, to the subject-matter of the corresponding independent claims 10-12 which therefore are also considered not new.

The features defined in the dependent Claims 2-9 are either features well known in the art cf. documents D1, D2 or design measures which one would regard as expected from the skilled person: the resulting claims are either not

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AUTHORITY (SEPARATE SHEET)**

International application No.

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novel or novel but not inventive (Art. 33 (1), 33 (2) and 33 (3) PCT)